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**PATENT**  
Attorney Docket No. 94321

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

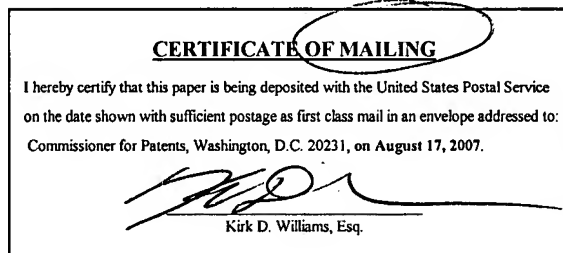
Patent No. 7,197,597

Confirmation No. 8428

Issued: Mar. 27, 2007

Name of Patentee: Scheid et al.

Patent Title: PERFORMING LOOKUP  
OPERATIONS IN A CONTENT  
ADDRESSABLE MEMORY BASED ON  
HASHED VALUES OF PARTICULAR USE  
IN MAINTAINING STATISTICS FOR  
PACKET FLOWS



**REQUEST FOR CERTIFICATE OF CORRECTION OF  
PATENT FOR PATENT OFFICE MISTAKE (37 C.F.R. § 1.322)**

Attn: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**Certificate**  
**AUG 22 2007**  
**of Correction**

It is requested that a Certificate of Correction be issued to correct Office mistakes found the above-identified patent. Attached hereto is a Certificate of Correction which indicates the requested correction. For your convenience, also attached are copies of selected pages (a) from the issued patent with errors highlighted, and (b) from Amendment C filed December 25, 2006, with the correct text/instructions.

**AUG 22 2007**

**AUG 22 2007**


In re US Patent No. 7,197,597

It is believed that there is no charge for this request because applicant or applicants were not responsible for such error, as will be apparent upon a comparison of the issued patent with the application as filed or amended. However, the Assistant Commissioner is hereby authorized to charge any fee that may be required to Deposit Account No. 501430.

Respectfully submitted,  
**The Law Office of Kirk D. Williams**

Date: August 17, 2007

By



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AUG 22 2007  
AUG 22 2007

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,197,597  
DATED : March 27, 2007  
INVENTOR(S) : Scheid et al.

It is certified that error(s) appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 13, line 29, replace "reable" with -- readable --

MAILING ADDRESS OF SENDER:

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PATENT NO. 7,197,597  
No. of additional copies

⇒ NONE (0)

AUG 22 2007  
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From Amendment C filed 12-25-2006

In re SCHEID ET AL., Application No. 10/625,012  
Amendment C Pursuant to 37 CFR 1.312

Claim 20 (previously presented): A computer-readable medium storing computer-executable instructions to perform steps for processing packets, said steps comprising:

- identifying a packet;
- identifying a flow identification value based on the packet;
- performing a lookup based on the flow identification value to identify a flow identification value mask;
- masking the flow identification value with the flow identification value mask to generate a masked flow identification value;
- hashing the masked flow identification value to generate a hashed masked flow identification value;
- performing an content addressable memory lookup operation on a set of content addressable memory entries to identify an address location; and
- performing an operation based on the address location.

Claim 21 (original): The computer-readable medium of claim 20, wherein said performing the operation includes updating a value stored a location corresponding to the address location.

Claim 22 (original): The computer-readable medium of claim 20, wherein said performing the operation includes retrieving a value stored a location corresponding to the address location.

Claim 23 (original): The computer-readable medium of claim 20, wherein said performing a lookup based on the flow identification value to identify a flow identification value mask includes performing the lookup on a set of values correspond to access control list entries.

← Error in Col. 13  
line 29

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16. The method of claim 13, wherein said performing a lookup based on the flow identification value to identify a flow identification value mask includes performing the lookup on a set of values corresponding to access control list entries.

17. An apparatus for processing packets, the apparatus comprising:

a packet processing engine configured to identify a packet and a flow identification value based on the packet;  
an content addressable memory configured to perform a first lookup operation based on the flow identification value to identifying a matching location;

an adjunct memory configured to perform a second lookup operation based on the matching location to identify a flow identification value mask;

masking logic configured to mask the flow identification value with the flow identification value mask to generate a masked flow identification value;

a hashing function configured to hash the masked flow identification value to generate a hashed masked flow identification value;

a second content addressable memory configured to perform a third lookup operation based on the masked flow identification value to identify a third lookup result;

a value memory for storing values; and

a control configured to update a value at a position corresponding to the third lookup result in the value memory.

18. A computer-readable medium storing computer-executable instructions to perform steps for processing packets, said steps comprising:

identifying a packet;

identifying a flow identification value based on the packet;

performing a lookup based on the flow identification value to identify a flow identification value mask;

masking the flow identification value with the flow identification value mask to generate a masked flow identification value;

hashing the masked flow identification value identification value to generate a hashed masked flow identification value;

performing a content addressable memory lookup operation on a set of content addressable memory entries to identify an address location; and

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performing an operation based on the address location.

19. The computer-readable medium of claim 18, wherein said performing the operation includes updating a value stored a location corresponding to the address location.

20. The computer-readable medium of claim 18, wherein said performing the operation includes retrieving a value stored a location corresponding to the address location.

21. The computer-readable medium of claim 18, wherein said performing a lookup based on the flow identification value to identify a flow identification value mask includes performing the lookup on a set of values correspond to access control list entries.

22. An apparatus for processing packets, the apparatus comprising:

means for identifying a packet;

means for identifying a flow identification value based on the packet;

means for performing a lookup based on the flow identification value to identify a flow identification value mask;

means for masking the flow identification value with the flow identification value mask to generate a masked flow identification value;

means for hashing the masked flow identification value identification value to generate a hashed masked flow identification value;

means for performing a content addressable memory lookup operation on a set of content addressable memory entries to identify an address location; and performing an operation based on the address location.

23. The apparatus of claim 22, wherein said means for performing the operation includes means for updating a value stored a location corresponding to the address location.

24. The apparatus of claim 22, wherein said means for performing the operation includes means for retrieving a value stored a location corresponding to the address location.

25. The apparatus of claim 22, wherein said means for performing a lookup based on the flow identification value to identify a flow identification value mask includes means for performing the lookup on a set of values correspond to access control list entries.

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